Release notes for ENDF/B Development n-068_Er_168 evaluation

April 26, 2017

- **checkr** Warnings:

  1. A previous error halted parsing of the current section
     MAT=6843, MF= 1, MT=451 (1): Parsing stopped

     ```
     ERROR(S) FOUND IN MAT=6843, MF= 1, MT=451
         SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER     182 TO     358
     ```

- **checkr** Errors:

  1. A variable is outside the allowed ENDF range
     MAT=6843, MF= 1, MT=451 (0): Variable range

     ```
     ERROR(S) FOUND IN MAT=6843, MF= 1, MT=451
         MOD =    1 OUT OF RANGE    0 -    0          RECORD NUMBER     182
     ```

  2. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF= 2, MT=151 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=6843, MF= 2, MT=151
         SECTION  2/151 NOT IN DIRECTORY            RECORD NUMBER     360
     ```

  3. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF= 3, MT= 1 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=6843, MF= 3, MT=  1
         SECTION  3/  1 NOT IN DIRECTORY            RECORD NUMBER     498
     ```

  4. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF= 3, MT= 2 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=6843, MF= 3, MT=  2
         SECTION  3/  2 NOT IN DIRECTORY            RECORD NUMBER     563
     ```

  5. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF= 3, MT= 4 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=6843, MF= 3, MT=  4
         SECTION  3/  4 NOT IN DIRECTORY            RECORD NUMBER     627
     ```

  6. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF= 3, MT= 16 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 16
         SECTION  3/ 16 NOT IN DIRECTORY            RECORD NUMBER     651
     ```

  7. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF= 3, MT= 17 (0): Directory (b)

1

```
        ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 17
          SECTION  3/ 17 NOT IN DIRECTORY                RECORD NUMBER    672
```

8. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6843, MF= 3, MT= 22 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 22
          SECTION  3/ 22 NOT IN DIRECTORY                RECORD NUMBER    684
```

9. Missing a section in directory so your directory is messed up. This error will break everything else
   MAT=6843, MF= 3, MT= 28 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 28
          SECTION  3/ 28 NOT IN DIRECTORY                RECORD NUMBER    709
```

10. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT= 32 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 32
          SECTION  3/ 32 NOT IN DIRECTORY                RECORD NUMBER    728
```

11. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT= 51 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 51
          SECTION  3/ 51 NOT IN DIRECTORY                RECORD NUMBER    740
```

12. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT= 52 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 52
          SECTION  3/ 52 NOT IN DIRECTORY                RECORD NUMBER    755
```

13. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT= 53 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 53
          SECTION  3/ 53 NOT IN DIRECTORY                RECORD NUMBER    769
```

14. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT= 54 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 54
          SECTION  3/ 54 NOT IN DIRECTORY                RECORD NUMBER    783
```

15. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT= 55 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 55
     SECTION  3/ 55 NOT IN DIRECTORY                    RECORD NUMBER     796
```

16. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT= 56 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 56
     SECTION  3/ 56 NOT IN DIRECTORY                    RECORD NUMBER     809
```

17. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT= 57 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 57
     SECTION  3/ 57 NOT IN DIRECTORY                    RECORD NUMBER     822
```

18. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT= 58 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 58
     SECTION  3/ 58 NOT IN DIRECTORY                    RECORD NUMBER     835
```

19. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT= 59 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 59
     SECTION  3/ 59 NOT IN DIRECTORY                    RECORD NUMBER     848
```

20. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT= 60 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 60
     SECTION  3/ 60 NOT IN DIRECTORY                    RECORD NUMBER     861
```

21. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT= 61 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 61
     SECTION  3/ 61 NOT IN DIRECTORY                    RECORD NUMBER     873
```

22. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT= 62 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 62
     SECTION  3/ 62 NOT IN DIRECTORY                    RECORD NUMBER     885
```

23. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT= 63 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 63
          SECTION  3/ 63 NOT IN DIRECTORY                RECORD NUMBER     897
```

24. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6843$, $MF=3$, $MT=64$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 64
          SECTION  3/ 64 NOT IN DIRECTORY                RECORD NUMBER     909
```

25. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6843$, $MF=3$, $MT=65$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 65
          SECTION  3/ 65 NOT IN DIRECTORY                RECORD NUMBER     921
```

26. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6843$, $MF=3$, $MT=66$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 66
          SECTION  3/ 66 NOT IN DIRECTORY                RECORD NUMBER     933
```

27. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6843$, $MF=3$, $MT=67$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 67
          SECTION  3/ 67 NOT IN DIRECTORY                RECORD NUMBER     945
```

28. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6843$, $MF=3$, $MT=68$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 68
          SECTION  3/ 68 NOT IN DIRECTORY                RECORD NUMBER     957
```

29. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6843$, $MF=3$, $MT=69$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 69
          SECTION  3/ 69 NOT IN DIRECTORY                RECORD NUMBER     969
```

30. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6843$, $MF=3$, $MT=70$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 70
          SECTION  3/ 70 NOT IN DIRECTORY                RECORD NUMBER     981
```

31. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6843$, $MF=3$, $MT=71$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 71
        SECTION  3/ 71 NOT IN DIRECTORY                  RECORD NUMBER    993
```

32. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6843, MF= 3, MT= 72$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 72
        SECTION  3/ 72 NOT IN DIRECTORY                  RECORD NUMBER   1005
```

33. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6843, MF= 3, MT= 73$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 73
        SECTION  3/ 73 NOT IN DIRECTORY                  RECORD NUMBER   1017
```

34. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6843, MF= 3, MT= 74$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 74
        SECTION  3/ 74 NOT IN DIRECTORY                  RECORD NUMBER   1029
```

35. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6843, MF= 3, MT= 75$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 75
        SECTION  3/ 75 NOT IN DIRECTORY                  RECORD NUMBER   1041
```

36. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6843, MF= 3, MT= 76$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 76
        SECTION  3/ 76 NOT IN DIRECTORY                  RECORD NUMBER   1053
```

37. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6843, MF= 3, MT= 77$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 77
        SECTION  3/ 77 NOT IN DIRECTORY                  RECORD NUMBER   1065
```

38. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6843, MF= 3, MT= 78$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 78
        SECTION  3/ 78 NOT IN DIRECTORY                  RECORD NUMBER   1077
```

39. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=6843, MF= 3, MT= 79$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 79
          SECTION  3/ 79 NOT IN DIRECTORY                    RECORD NUMBER    1089
```

40. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT= 91 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF= 3, MT= 91
          SECTION  3/ 91 NOT IN DIRECTORY                    RECORD NUMBER    1101
```

41. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT=102 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF= 3, MT=102
          SECTION  3/102 NOT IN DIRECTORY                    RECORD NUMBER    1113
```

42. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT=103 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF= 3, MT=103
          SECTION  3/103 NOT IN DIRECTORY                    RECORD NUMBER    1165
```

43. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT=104 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF= 3, MT=104
          SECTION  3/104 NOT IN DIRECTORY                    RECORD NUMBER    1192
```

44. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT=105 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF= 3, MT=105
          SECTION  3/105 NOT IN DIRECTORY                    RECORD NUMBER    1214
```

45. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 3, MT=107 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF= 3, MT=107
          SECTION  3/107 NOT IN DIRECTORY                    RECORD NUMBER    1234
```

46. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 2 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF= 4, MT=  2
          SECTION  4/  2 NOT IN DIRECTORY                    RECORD NUMBER    1271
```

47. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 16 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 16
           SECTION  4/ 16 NOT IN DIRECTORY                    RECORD NUMBER    1413
```

48. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 17 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 17
           SECTION  4/ 17 NOT IN DIRECTORY                    RECORD NUMBER    1416
```

49. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 22 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 22
           SECTION  4/ 22 NOT IN DIRECTORY                    RECORD NUMBER    1419
```

50. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 28 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 28
           SECTION  4/ 28 NOT IN DIRECTORY                    RECORD NUMBER    1422
```

51. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 32 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 32
           SECTION  4/ 32 NOT IN DIRECTORY                    RECORD NUMBER    1425
```

52. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 51 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 51
           SECTION  4/ 51 NOT IN DIRECTORY                    RECORD NUMBER    1428
```

53. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 52 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 52
           SECTION  4/ 52 NOT IN DIRECTORY                    RECORD NUMBER    1588
```

54. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 53 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 53
           SECTION  4/ 53 NOT IN DIRECTORY                    RECORD NUMBER    1704
```

55. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 54 (0): Directory (b)

```
            ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 54
                 SECTION  4/ 54 NOT IN DIRECTORY                 RECORD NUMBER    1811
```

56. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 55 (0): Directory (b)

```
            ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 55
                 SECTION  4/ 55 NOT IN DIRECTORY                 RECORD NUMBER    1910
```

57. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 56 (0): Directory (b)

```
            ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 56
                 SECTION  4/ 56 NOT IN DIRECTORY                 RECORD NUMBER    2007
```

58. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 57 (0): Directory (b)

```
            ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 57
                 SECTION  4/ 57 NOT IN DIRECTORY                 RECORD NUMBER    2104
```

59. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 58 (0): Directory (b)

```
            ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 58
                 SECTION  4/ 58 NOT IN DIRECTORY                 RECORD NUMBER    2197
```

60. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 59 (0): Directory (b)

```
            ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 59
                 SECTION  4/ 59 NOT IN DIRECTORY                 RECORD NUMBER    2287
```

61. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 60 (0): Directory (b)

```
            ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 60
                 SECTION  4/ 60 NOT IN DIRECTORY                 RECORD NUMBER    2379
```

62. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 61 (0): Directory (b)

```
            ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 61
                 SECTION  4/ 61 NOT IN DIRECTORY                 RECORD NUMBER    2469
```

63. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 62 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 62
          SECTION  4/ 62 NOT IN DIRECTORY                    RECORD NUMBER    2561
```

64. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 63 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 63
          SECTION  4/ 63 NOT IN DIRECTORY                    RECORD NUMBER    2653
```

65. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 64 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 64
          SECTION  4/ 64 NOT IN DIRECTORY                    RECORD NUMBER    2745
```

66. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 65 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 65
          SECTION  4/ 65 NOT IN DIRECTORY                    RECORD NUMBER    2835
```

67. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 66 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 66
          SECTION  4/ 66 NOT IN DIRECTORY                    RECORD NUMBER    2925
```

68. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 67 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 67
          SECTION  4/ 67 NOT IN DIRECTORY                    RECORD NUMBER    3017
```

69. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 68 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 68
          SECTION  4/ 68 NOT IN DIRECTORY                    RECORD NUMBER    3107
```

70. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 69 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 69
          SECTION  4/ 69 NOT IN DIRECTORY                    RECORD NUMBER    3199
```

71. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 70 (0): Directory (b)

9

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 70
           SECTION  4/ 70 NOT IN DIRECTORY                   RECORD NUMBER    3291
```

72. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 71 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 71
           SECTION  4/ 71 NOT IN DIRECTORY                   RECORD NUMBER    3381
```

73. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 72 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 72
           SECTION  4/ 72 NOT IN DIRECTORY                   RECORD NUMBER    3473
```

74. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 73 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 73
           SECTION  4/ 73 NOT IN DIRECTORY                   RECORD NUMBER    3563
```

75. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 74 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 74
           SECTION  4/ 74 NOT IN DIRECTORY                   RECORD NUMBER    3655
```

76. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 75 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 75
           SECTION  4/ 75 NOT IN DIRECTORY                   RECORD NUMBER    3745
```

77. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 76 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 76
           SECTION  4/ 76 NOT IN DIRECTORY                   RECORD NUMBER    3835
```

78. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 77 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 77
           SECTION  4/ 77 NOT IN DIRECTORY                   RECORD NUMBER    3925
```

79. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 78 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 78
          SECTION  4/ 78 NOT IN DIRECTORY                RECORD NUMBER   4015
```

80. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 79 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 79
          SECTION  4/ 79 NOT IN DIRECTORY                RECORD NUMBER   4105
```

81. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 4, MT= 91 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 4, MT= 91
          SECTION  4/ 91 NOT IN DIRECTORY                RECORD NUMBER   4195
```

82. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 5, MT= 16 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 5, MT= 16
          SECTION  5/ 16 NOT IN DIRECTORY                RECORD NUMBER   4288
```

83. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 5, MT= 17 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 5, MT= 17
          SECTION  5/ 17 NOT IN DIRECTORY                RECORD NUMBER   4608
```

84. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 5, MT= 22 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 5, MT= 22
          SECTION  5/ 22 NOT IN DIRECTORY                RECORD NUMBER   4748
```

85. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 5, MT= 28 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 5, MT= 28
          SECTION  5/ 28 NOT IN DIRECTORY                RECORD NUMBER   5156
```

86. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 5, MT= 32 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 5, MT= 32
          SECTION  5/ 32 NOT IN DIRECTORY                RECORD NUMBER   5423
```

87. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF= 5, MT= 91 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF= 5, MT= 91
           SECTION  5/ 91 NOT IN DIRECTORY                 RECORD NUMBER    5560
```

88. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF=12, MT= 16 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=12, MT= 16
           SECTION 12/ 16 NOT IN DIRECTORY                 RECORD NUMBER    6027
```

89. Missing a gamma spectrum for continuum of gammas
    MAT=6843, MF=12, MT= 16 (1): No gamma spectrum

```
        ERROR(S) FOUND IN MAT=6843, MF=12, MT= 16
           CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

90. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF=12, MT= 17 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=12, MT= 17
           SECTION 12/ 17 NOT IN DIRECTORY                 RECORD NUMBER    6036
```

91. Missing a gamma spectrum for continuum of gammas
    MAT=6843, MF=12, MT= 17 (1): No gamma spectrum

```
        ERROR(S) FOUND IN MAT=6843, MF=12, MT= 17
           CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

92. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF=12, MT= 22 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=12, MT= 22
           SECTION 12/ 22 NOT IN DIRECTORY                 RECORD NUMBER    6043
```

93. Missing a gamma spectrum for continuum of gammas
    MAT=6843, MF=12, MT= 22 (1): No gamma spectrum

```
        ERROR(S) FOUND IN MAT=6843, MF=12, MT= 22
           CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

94. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF=12, MT= 28 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=12, MT= 28
           SECTION 12/ 28 NOT IN DIRECTORY                 RECORD NUMBER    6053
```

95. Missing a gamma spectrum for continuum of gammas
    MAT=6843, MF=12, MT= 28 (1): No gamma spectrum

```
        ERROR(S) FOUND IN MAT=6843, MF=12, MT= 28
           CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

96. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 51 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 51
       SECTION 12/ 51 NOT IN DIRECTORY                RECORD NUMBER    6062
```

97. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 52 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 52
       SECTION 12/ 52 NOT IN DIRECTORY                RECORD NUMBER    6066
```

98. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 53 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 53
       SECTION 12/ 53 NOT IN DIRECTORY                RECORD NUMBER    6070
```

99. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 54 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 54
       SECTION 12/ 54 NOT IN DIRECTORY                RECORD NUMBER    6074
```

100. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 55 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 55
       SECTION 12/ 55 NOT IN DIRECTORY                RECORD NUMBER    6079
```

101. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 56 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 56
       SECTION 12/ 56 NOT IN DIRECTORY                RECORD NUMBER    6084
```

102. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 57 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 57
       SECTION 12/ 57 NOT IN DIRECTORY                RECORD NUMBER    6088
```

103. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 58 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 58
       SECTION 12/ 58 NOT IN DIRECTORY                RECORD NUMBER    6093
```

104. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6843$, $MF=12$, $MT= 59$ (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6843, MF=12, MT= 59
        SECTION 12/ 59 NOT IN DIRECTORY                 RECORD NUMBER    6099
```

105. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6843$, $MF=12$, $MT= 60$ (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6843, MF=12, MT= 60
        SECTION 12/ 60 NOT IN DIRECTORY                 RECORD NUMBER    6104
```

106. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6843$, $MF=12$, $MT= 61$ (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6843, MF=12, MT= 61
        SECTION 12/ 61 NOT IN DIRECTORY                 RECORD NUMBER    6109
```

107. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6843$, $MF=12$, $MT= 62$ (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6843, MF=12, MT= 62
        SECTION 12/ 62 NOT IN DIRECTORY                 RECORD NUMBER    6113
```

108. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6843$, $MF=12$, $MT= 63$ (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6843, MF=12, MT= 63
        SECTION 12/ 63 NOT IN DIRECTORY                 RECORD NUMBER    6119
```

109. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6843$, $MF=12$, $MT= 64$ (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6843, MF=12, MT= 64
        SECTION 12/ 64 NOT IN DIRECTORY                 RECORD NUMBER    6125
```

110. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6843$, $MF=12$, $MT= 65$ (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6843, MF=12, MT= 65
        SECTION 12/ 65 NOT IN DIRECTORY                 RECORD NUMBER    6130
```

111. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6843$, $MF=12$, $MT= 66$ (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=6843, MF=12, MT= 66
        SECTION 12/ 66 NOT IN DIRECTORY                 RECORD NUMBER    6135
```

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112. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 67 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 67
       SECTION 12/ 67 NOT IN DIRECTORY              RECORD NUMBER    6139
```

113. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 68 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 68
       SECTION 12/ 68 NOT IN DIRECTORY              RECORD NUMBER    6144
```

114. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 69 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 69
       SECTION 12/ 69 NOT IN DIRECTORY              RECORD NUMBER    6151
```

115. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 70 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 70
       SECTION 12/ 70 NOT IN DIRECTORY              RECORD NUMBER    6155
```

116. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 71 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 71
       SECTION 12/ 71 NOT IN DIRECTORY              RECORD NUMBER    6160
```

117. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 72 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 72
       SECTION 12/ 72 NOT IN DIRECTORY              RECORD NUMBER    6165
```

118. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 73 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 73
       SECTION 12/ 73 NOT IN DIRECTORY              RECORD NUMBER    6171
```

119. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 74 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 74
       SECTION 12/ 74 NOT IN DIRECTORY              RECORD NUMBER    6177
```

120. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 75 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 75
       SECTION 12/ 75 NOT IN DIRECTORY                 RECORD NUMBER    6184
```

121. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 76 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 76
       SECTION 12/ 76 NOT IN DIRECTORY                 RECORD NUMBER    6190
```

122. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 77 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 77
       SECTION 12/ 77 NOT IN DIRECTORY                 RECORD NUMBER    6195
```

123. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 78 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 78
       SECTION 12/ 78 NOT IN DIRECTORY                 RECORD NUMBER    6199
```

124. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 79 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 79
       SECTION 12/ 79 NOT IN DIRECTORY                 RECORD NUMBER    6203
```

125. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT= 91 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 91
       SECTION 12/ 91 NOT IN DIRECTORY                 RECORD NUMBER    6210
```

126. Missing a gamma spectrum for continuum of gammas
MAT=6843, MF=12, MT= 91 (1): No gamma spectrum

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT= 91
       CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

127. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT=102 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=6843, MF=12, MT=102
       SECTION 12/102 NOT IN DIRECTORY                 RECORD NUMBER    6221
```

128. Missing a gamma spectrum for continuum of gammas
MAT=6843, MF=12, MT=102 (1): No gamma spectrum

```
        ERROR(S) FOUND IN MAT=6843, MF=12, MT=102
            CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

129. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT=103 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=12, MT=103
            SECTION 12/103 NOT IN DIRECTORY              RECORD NUMBER    6235
```

130. Missing a gamma spectrum for continuum of gammas
MAT=6843, MF=12, MT=103 (1): No gamma spectrum

```
        ERROR(S) FOUND IN MAT=6843, MF=12, MT=103
            CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

131. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT=104 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=12, MT=104
            SECTION 12/104 NOT IN DIRECTORY              RECORD NUMBER    6246
```

132. Missing a gamma spectrum for continuum of gammas
MAT=6843, MF=12, MT=104 (1): No gamma spectrum

```
        ERROR(S) FOUND IN MAT=6843, MF=12, MT=104
            CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

133. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=12, MT=107 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=12, MT=107
            SECTION 12/107 NOT IN DIRECTORY              RECORD NUMBER    6255
```

134. Missing a gamma spectrum for continuum of gammas
MAT=6843, MF=12, MT=107 (1): No gamma spectrum

```
        ERROR(S) FOUND IN MAT=6843, MF=12, MT=107
            CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

135. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 16 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=14, MT= 16
            SECTION 14/ 16 NOT IN DIRECTORY              RECORD NUMBER    6269
```

136. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 17 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=14, MT= 17
         SECTION 14/ 17 NOT IN DIRECTORY                 RECORD NUMBER    6271
```

137. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 22 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=14, MT= 22
         SECTION 14/ 22 NOT IN DIRECTORY                 RECORD NUMBER    6273
```

138. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 28 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=14, MT= 28
         SECTION 14/ 28 NOT IN DIRECTORY                 RECORD NUMBER    6275
```

139. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 51 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=14, MT= 51
         SECTION 14/ 51 NOT IN DIRECTORY                 RECORD NUMBER    6277
```

140. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 52 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=14, MT= 52
         SECTION 14/ 52 NOT IN DIRECTORY                 RECORD NUMBER    6279
```

141. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 53 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=14, MT= 53
         SECTION 14/ 53 NOT IN DIRECTORY                 RECORD NUMBER    6281
```

142. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 54 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=14, MT= 54
         SECTION 14/ 54 NOT IN DIRECTORY                 RECORD NUMBER    6283
```

143. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 55 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=14, MT= 55
         SECTION 14/ 55 NOT IN DIRECTORY                 RECORD NUMBER    6285
```

144. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 56 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=14, MT= 56
         SECTION 14/ 56 NOT IN DIRECTORY                RECORD NUMBER    6287
```

145. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6843$, $MF=14$, $MT= 57$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=14, MT= 57
         SECTION 14/ 57 NOT IN DIRECTORY                RECORD NUMBER    6289
```

146. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6843$, $MF=14$, $MT= 58$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=14, MT= 58
         SECTION 14/ 58 NOT IN DIRECTORY                RECORD NUMBER    6291
```

147. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6843$, $MF=14$, $MT= 59$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=14, MT= 59
         SECTION 14/ 59 NOT IN DIRECTORY                RECORD NUMBER    6293
```

148. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6843$, $MF=14$, $MT= 60$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=14, MT= 60
         SECTION 14/ 60 NOT IN DIRECTORY                RECORD NUMBER    6295
```

149. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6843$, $MF=14$, $MT= 61$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=14, MT= 61
         SECTION 14/ 61 NOT IN DIRECTORY                RECORD NUMBER    6297
```

150. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6843$, $MF=14$, $MT= 62$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=14, MT= 62
         SECTION 14/ 62 NOT IN DIRECTORY                RECORD NUMBER    6299
```

151. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6843$, $MF=14$, $MT= 63$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=14, MT= 63
         SECTION 14/ 63 NOT IN DIRECTORY                RECORD NUMBER    6301
```

152. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=6843$, $MF=14$, $MT= 64$ (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6843, MF=14, MT= 64
   SECTION 14/ 64 NOT IN DIRECTORY                 RECORD NUMBER    6303
```

153. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 65 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6843, MF=14, MT= 65
   SECTION 14/ 65 NOT IN DIRECTORY                 RECORD NUMBER    6305
```

154. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 66 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6843, MF=14, MT= 66
   SECTION 14/ 66 NOT IN DIRECTORY                 RECORD NUMBER    6307
```

155. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 67 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6843, MF=14, MT= 67
   SECTION 14/ 67 NOT IN DIRECTORY                 RECORD NUMBER    6309
```

156. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 68 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6843, MF=14, MT= 68
   SECTION 14/ 68 NOT IN DIRECTORY                 RECORD NUMBER    6311
```

157. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 69 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6843, MF=14, MT= 69
   SECTION 14/ 69 NOT IN DIRECTORY                 RECORD NUMBER    6313
```

158. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 70 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6843, MF=14, MT= 70
   SECTION 14/ 70 NOT IN DIRECTORY                 RECORD NUMBER    6315
```

159. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 71 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6843, MF=14, MT= 71
   SECTION 14/ 71 NOT IN DIRECTORY                 RECORD NUMBER    6317
```

160. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=14, MT= 72 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6843, MF=14, MT= 72
            SECTION 14/ 72 NOT IN DIRECTORY                RECORD NUMBER    6319
```

161. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF=14, MT= 73 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6843, MF=14, MT= 73
            SECTION 14/ 73 NOT IN DIRECTORY                RECORD NUMBER    6321
```

162. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF=14, MT= 74 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6843, MF=14, MT= 74
            SECTION 14/ 74 NOT IN DIRECTORY                RECORD NUMBER    6323
```

163. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF=14, MT= 75 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6843, MF=14, MT= 75
            SECTION 14/ 75 NOT IN DIRECTORY                RECORD NUMBER    6325
```

164. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF=14, MT= 76 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6843, MF=14, MT= 76
            SECTION 14/ 76 NOT IN DIRECTORY                RECORD NUMBER    6327
```

165. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF=14, MT= 77 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6843, MF=14, MT= 77
            SECTION 14/ 77 NOT IN DIRECTORY                RECORD NUMBER    6329
```

166. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF=14, MT= 78 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6843, MF=14, MT= 78
            SECTION 14/ 78 NOT IN DIRECTORY                RECORD NUMBER    6331
```

167. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF=14, MT= 79 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=6843, MF=14, MT= 79
            SECTION 14/ 79 NOT IN DIRECTORY                RECORD NUMBER    6333
```

168. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF=14, MT= 91 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=14, MT= 91
           SECTION 14/ 91 NOT IN DIRECTORY                  RECORD NUMBER    6335
```

169. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF=14, MT=102 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=14, MT=102
           SECTION 14/102 NOT IN DIRECTORY                  RECORD NUMBER    6337
```

170. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF=14, MT=103 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=14, MT=103
           SECTION 14/103 NOT IN DIRECTORY                  RECORD NUMBER    6339
```

171. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF=14, MT=104 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=14, MT=104
           SECTION 14/104 NOT IN DIRECTORY                  RECORD NUMBER    6341
```

172. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF=14, MT=107 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=14, MT=107
           SECTION 14/107 NOT IN DIRECTORY                  RECORD NUMBER    6343
```

173. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF=15, MT= 16 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=15, MT= 16
           SECTION 15/ 16 NOT IN DIRECTORY                  RECORD NUMBER    6346
```

174. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF=15, MT= 17 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=15, MT= 17
           SECTION 15/ 17 NOT IN DIRECTORY                  RECORD NUMBER    6474
```

175. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF=15, MT= 22 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=15, MT= 22
           SECTION 15/ 22 NOT IN DIRECTORY                  RECORD NUMBER    6517
```

176. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=6843, MF=15, MT= 28 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=15, MT= 28
           SECTION 15/ 28 NOT IN DIRECTORY                 RECORD NUMBER    6686
```

177. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF=15, MT= 91 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=15, MT= 91
           SECTION 15/ 91 NOT IN DIRECTORY                 RECORD NUMBER    6815
```

178. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF=15, MT=102 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=15, MT=102
           SECTION 15/102 NOT IN DIRECTORY                 RECORD NUMBER    7112
```

179. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF=15, MT=103 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=15, MT=103
           SECTION 15/103 NOT IN DIRECTORY                 RECORD NUMBER    7650
```

180. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF=15, MT=104 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=15, MT=104
           SECTION 15/104 NOT IN DIRECTORY                 RECORD NUMBER    7862
```

181. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF=15, MT=107 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=15, MT=107
           SECTION 15/107 NOT IN DIRECTORY                 RECORD NUMBER    7996
```

182. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF=33, MT= 2 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=33, MT=  2
           SECTION 33/  2 NOT IN DIRECTORY                 RECORD NUMBER    8323
```

183. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF=33, MT= 4 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=6843, MF=33, MT=  4
           SECTION 33/  4 NOT IN DIRECTORY                 RECORD NUMBER    8403
```

184. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=6843, MF=33, MT= 16 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=33, MT= 16
          SECTION 33/ 16 NOT IN DIRECTORY              RECORD NUMBER    8466
```

185. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6843, MF=33, MT=102 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=6843, MF=33, MT=102
          SECTION 33/102 NOT IN DIRECTORY              RECORD NUMBER    8480
```

- `groupie`   Errors:

    1. Very small elastic cross section found
    0: Small elastic

    ```
    Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)
    ------------------------------------------------------------------------
    ENDF/B Input and Output Data Filenames
    ENDFB.IN
    ENDFB.OUT
    ... [97 more lines]
    ```

- `fudge-4.0`   Warnings:

    1. Missing a channel with a particular angular momenta combination
    resonances / resolved / MultiLevel_BreitWigner (Error # 0): missingResonanceChannel

    ```
    WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"
    WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"
    WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"
    WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"
    ```

    2. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
    Section 0 (n + Er168): / Form 'eval': / Component 0 (Error # 0): Condition num.

    ```
    WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
    ```

    3. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
    Section 0 (n + Er168): / Form 'eval': / Component 1 (Error # 0): Condition num.

    ```
    WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
    ```

    4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
    Section 1 ((z,n)): / Form 'eval': (Error # 0): Condition num.

    ```
    WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
    ```

    5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
    Section 2 (n[multiplicity:'2'] + Er167 + gamma): / Form 'eval': (Error # 0): Condition num.

    ```
    WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
    ```

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (Er169 + gamma): / Form 'eval': / Component 0 (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

7. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (Er169 + gamma): / Form 'eval': / Component 1 (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

- `fudge-4.0` Errors:

1. Found a negative probability
reaction label 1: n + Er168_e1 / Product: n / Distribution: / angularTwoBody - XYs2d: (Error # 0): Negative prob.

```
WARNING: Negative probabilities encountered. Incident energy: 2.e7 eV, worst case: -0.00430489531969
```

2. Calculated and tabulated Q values disagree.
reaction label 31: n[multiplicity:'2'] + Er167 + gamma (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -10355650.26998901 eV vs -7771370. eV!
```

3. Calculated and tabulated Q values disagree.
reaction label 32: n[multiplicity:'3'] + Er166 + gamma (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -16792104.36056519 eV vs -1.42067e7 eV!
```

4. Calculated and tabulated Q values disagree.
reaction label 33: n + H1 + Ho167 + gamma (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -10583484.70635986 eV vs -7996030. eV!
```

5. Calculated and tabulated Q values disagree.
reaction label 34: n + H2 + Ho166 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -15639890.34933472 eV vs -1.30538e7 eV!
```

6. Calculated and tabulated Q values disagree.
reaction label 35: Er169 + gamma (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: 3418935.765197754 eV vs 6.0037e6 eV!
```

7. Calculated and tabulated Q values disagree.
reaction label 36: n + He4 + Dy164 + gamma (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -2032686.137512207 eV vs 553908. eV!
```

8. Calculated and tabulated Q values disagree.
reaction label 37: H1 + (Ho168_s ->Ho168 + gamma) (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -4731987.452911377 eV vs -1936660. eV!
```

9. Calculated and tabulated Q values disagree.
   reaction label 38: H2 + (Ho167_s ->Ho167 + gamma) (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -8358918.605438232 eV vs -5771460. eV!
```

10. Calculated and tabulated Q values disagree.
    reaction label 39: H3 + Ho166_s (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -9382657.408721924 eV vs -6795720. eV!
```

11. Calculated and tabulated Q values disagree.
    reaction label 40: He4 + (Dy165_s ->Dy165 + gamma) (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: 3683272.211639404 eV vs 6270280. eV!
```

- njoy2012   Warnings:

  1. Evaluation has no unresolved resonance parameters given
     unresr...calculation of unresolved resonance cross sections (0): No URR

```
     ---message from unresr---mat 6843 has no unresolved parameters
                              copy as is to nout
```

  2. Evaluation has no unresolved resonance parameters given
     purr...probabalistic unresolved calculation (0): No URR

```
     ---message from purr---mat 6843 has no unresolved parameters
                            copy as is to nout
```

  3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

```
     ---message from conver---cannot do complete particle production for mt= 16
                              only mf4/mf5 provided
```

  4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

```
     ---message from conver---cannot do complete particle production for mt= 17
                              only mf4/mf5 provided
```

  5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

```
     ---message from conver---cannot do complete particle production for mt= 22
                              only mf4/mf5 provided
```

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
   groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

   ```
   ---message from conver---cannot do complete particle production for mt= 28
                           only mf4/mf5 provided
   ```

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
   groupr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

   ```
   ---message from conver---cannot do complete particle production for mt= 32
                           only mf4/mf5 provided
   ```

8. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
   groupr...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)

   ```
   ---message from conver---cannot do complete particle production for mt= 91
                           only mf4/mf5 provided
   ```

- `njoy2012` Errors:

  1. An angular distribution is negative
     acer...monte carlo neutron and photon data (0): Neg. P(Ejµ) (b)

     ```
     ---message from ptleg2---negative probs found
                           11 for mt= 51 e= 2.000E+07
     ```

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